TYPE OR PRINT IN BLACK INK (For instructions, see booklet: "How to File an Application to Appropriate Water in California")



California Environmental Protection Agency

State Water Resources Control Board Division of Water Rights P.O. Box 2000, Sacramento, CA 95812-2000 Tel: (916) 341-5300 Fax: (916) 341-5400

APPLICATION NO. AO31620

www.waterrights.ca.gov

APPLICATION TO APPROPRIATE WATER

SECTION A: NOTICE INFORMATION

1.	API	'LICAN	II/A	GENT

APPLICANT/A	AGENT						
		APPLICAN	T .		ASSIGNI	ED AGENT (if an	y)
Name	Norm Shina	bargar		Wagne	er & Bor	signore	
Mailing Address	2720 Reibl	i Road		444 N	North Th	nird Stre	et, #325
City, State & Zip	Santa Rosa	, CA 95	404	Sacra	amento,	CA 95814	
Telephone	(707) 539-			(916)	441-68	350	
Fax	(,0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(916)	448-38	366	
E-mail		.,		ryans	s@wagnei	-engrs.c	om
☐ Sole Owner ☐ Limited Partne ☐ Corporation *Please provide a copy of y PROJECT DE type of construct	ership*	Business Tr Joint Ventu Provide a de	re etailed descript	ion of your pr	☐ Husbar☐ Other _	al Partnership* ad/Wife Co-Or ding, but not lie used.)	wnership
☐ For continuation,							
PURPOSE OF	USE, DIVERS	ION/STO	RAGE AMO	UNT AND	SEASON		
a. PURPOSE OF USE	200000		DIVERSION	DI HID CLON	AN COUNTY	STORAGE	ZOL L ECELONI
(irrigation, domestic,	etc.) Rate	UNT Acre-feet	SEASON OF Beginning date	Ending date	AMOUNT Acre-feet	SEASON OF O	Ending date
	(cfs or gpd)*	per year	(month & day)	(month & day)	per year	(month & day)	(month & day)
Irrigation	1				35	11-1	5-30
Frost Prot	ection						
Heat Conti	rol						
	recreatio	n and f					
Incidental See Attachment N b. Total combine c. Reservoir stor	recreatio	y direct div ım □ offsti	* If rate is less ersion and stor ream 🔲 under	than 0.025 cubic f age during an ground (If und	y one year v	ige, attach Form A	acı APP-UG
d. County in whi e. Assessor's Par	ch diversion is lo cel Number(s):	cated: <u>SO</u> 029-070	noma (-39, 40,	County in whi 63 and 29	ch water wi 9 – 1 1 0 – 5	11 be used: <u>S</u> 1, 52, 53	<u>,</u> 56
	Points of Diversion PORD #_1:_u	on (POD)/Po nnamed s	oints of Redive	rsion (PORD) tributar	y to <u>Rin</u>	con Creek	
	ta Rosa Cre						
M POD / ☐	PORD# <u>2</u> : ui ta Rosa Cre	named s	stream nce Markwe	tributar st Creek	y to <u>Rin</u> thence	con Creek	River
	PORD #:					RUSSIAII	
thence					J 10		
	PORD#:				u to		

ROCK-P -1/60

> thence 🗆 See Attachment No. ____

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	2	E 1,802,	31	2	NW ¼ of	NE 1/4	36	8N	8W	MD	
		N 305, 1 E 1,801,		2	NW ¹ / ₄ of	NE 1/4	36	8N	8W	MD	
					¼ of	1/4					
느					¼ of	1/4					
Ц	1 See At	tachment No							.,,,		
		f the post offi a Rosa	ce most ofte	n used by	y those livin	g near the	e proposed p	ooint(s) o	f diversion	n:	
If	NO, p	u attached a v rovide suffici available for	ent informat	ion to de	monstrate tl	project?	⊠ YES □ is reasonable	NO likeliho	od that un	appropri	iated
C . In	Control n an av	project locate Board during rerage year, do which months	your proposes the stream $? \square $ Jan $\square $ H	ed season n dry up Feb □ M re availa	on of diversion at any point lar ☑ Apr ☑ ble if a porti	on? □ Y t downstr ⅓ May ☒ on of you	ES 🛛 NO eam of your Jun 🖾 Jul I ir requested	project? XI Aug IX diversion	X YES Sep X (□ NO Oct □ N oust be e	If Y
W be	Vhat al ecause Perc See Ai	water is not a colating trachment No.	available for groundwa		lation? (e.g.,	percolati	ing groundw	ater, pure	chased wa	ter, etc.)	
l. W be	Vhat all ecause Perc See All CE O	water is not a colating trachment No	available for groundwa –	ter	ation? (e.g.,	percolat	BASE &		IF IRRI	GATED	
l. W be	Vhat all ecause Perc See At CE O USE IS 40-acre s	water is not a colating trachment No F USE WITHIN subdivision)	available for groundwa - SECTION*	Tow	NSHIP R	ANGE	BASE & MERIDIAN	Ac	IF IRRI	GATED resently c	ultiva
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. — 11000	ATION: Ma	ximum are	a to be irrigated	in any one year	:64	_acres.	
CR	OP	ACRES	METHOD OF l	ooding, etc.)	WATER USE (Acre-feet/Yr.)	SEASON OF Beginning date (month & day)	
Vineyar	d l	64	Drip	i		4-15	
							_
☐ See Attachm	ant No	L					
Number of d Area of d Incidenta	of people to boomestic lawn lawn lawn	e served: _ is and gard es:	ces to be served:Estimens:(dust control a	nated daily use j square fee rea, number and kind	per person is: et of domestic animals,	etc.)	
c. 🗆 STOC	KWATERIN	IG: Kind c	of stock:		Maximum	number:	
Describe	type of opera	ıtion:	<u> </u>		dairy, range, etc.)		
inc: KECR	idental EATIONAL	: Type of:	recreation: 🛛 Fi	shing 🛮 Swim	ming 🛮 Boati	ng 🛘 Other	
e. 🛮 MUN.	CIPAL:						m-
List for 5-year	OPULATION periods until use i	is completed	MAXIMUM			ANNUAL USE	
Period	Рори	lation	Average daily use (gallons per capita)	Rate of diversion (cfs)	Average daily use (gallons per capita	Acre-foot) (per capita)	Total (acre-fe
Present							
	. 35						
T. C	m iyo.	se durino v	ear'	Month of	`minimum use o	luring vear:	
Month of	maximum us		- least agetes light	. 61	not norge		
Month of	maximum us		e heat controlled	: 64	net acres		
Month of	maximum us		e heat controlled eyard use: 35	gpm per ac	net acres		<u> </u>
Month of f. HEAT Type of c Rate at w Heat prof	CONTROL: crops protecte chich water is ection seasor	: Area to bed: vine applied to will begin	use: 35 1 6-1 (month & day)	gpm per ac	re 8-31 (month & day)		
Month of f. □ HEAT Type of c Rate at w Heat prof g. □ FROS	Emaximum us CONTROL: crops protecte which water is section season	: Area to bed: _vine applied to a will begin	eyard use: $\frac{35}{6-1}$ (month & day) a to be frost prote	gpm per acan and end ected: 64	re 8-31 (month & day) net acre		
Month of f. □ HEAT Type of o Rate at w Heat prof g. □ FROS	Emaximum us CONTROL: crops protecte which water is section season	: Area to bed: _vine applied to a will begin	eyard use: $\frac{35}{6-1}$ (month & day) a to be frost prote	gpm per acan and end ected: 64	re 8-31 (month & day) net acre		
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k.

FISH AND WILDLIFE PRESERVATION AND/OR ENHANCEMENT: List specific species and habitat type that will be preserved or enhanced in Item 7a of Section C.

1. OTHER: Describe use: <u>Incidental fire protection</u>
Basis for determination of amount of water needed:

	Diversion													
								(sump, of	fset well,	hannel,	reservoir,	etc)		
	Pump dis	scharge	rate:_			□ cfs or	□ gpd I	Horsepow	er:		_ Pump	e Efficience	су:	
c.	Conduit i	from div	ersio	n point	to firs	t lateral	or to offstr	eam stora	ge reser	voir:			T GAD	A CUTTO
CO	NDUIT	5 5 6 7 6 N	MAT	ERIAL	el lining		CROSS-SEC	CTION	LENG	JTH. [TAL OR FALL		ACIT gpd o
	pipe or nannel)				ed or not		top and bott (inches or	om width) feet)		Y A	feet	+ or -	g	pm)
D	itch	Eart	h				4' x	1 '	300	<u>'</u>	10	-	5	cfs
		· · · · · · · · · · · · · · · · · · ·			_									
	See Attachn	nent No.							<u> </u>					
				or und	ergrou.	nd storag	ge, comple	te and atta	ich form	ı APP	-UGST	OR)		
B	ESERVOIR	3.50 1 50 30 4	Killer Samer a							week to		RESERVO	IR	
ļ:	NAME		tical he			struction	Length	Freebo	ard:	Surfa	ace area	Capacity	1111/02 1/03/11/03/11	aximu
·;. · ·1	OR NUMBER	from	downs	tream	ma	aterial	(feet)	dam heigh spillway		who (a	en full cres)	(acre-fee		er der (feet)
			of slop vay lev	el (feet			Augustinia Angli	spiliway (fee		1	eta hadri i	ys II		
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925 3000	SERVOIR NAME	100		TORRUP (SC)	<u> </u>		1 2007/7 1	OUTLET P					2	
	OR		neter hes)		igth et)	vertical	Fall: distance bet		vertical c				Dead Stor ge below	
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40.000		25, 27, 27, 11	1.00	1 (3/32/VISE)	j. 1	entrance a	nd exit of ou	tlet pipe v	vay to em		of outlet p	ibe '		
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R	eservo	oir i	s ex	isti	<u></u>					(feet)	ed by	(acre-fe	et)
				isti	<u></u>		(feet)			(feet)		(acre-fe	et)
	eservo			isti	<u></u>		(feet)			(feet)		(acre-fe	et)
<u> </u>	See Attachn	nent No.	stored	l and th	ing.	Dewa	(feet) tering	will oint of div	be ac	(feet)	plish	ed by	(acre-fe	et) ing
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APP 04/04 Page 4 of 7

	water diversion and use, if applicable.	
	List any related applications, registrations, permits, or licenses located in the proposed place of use utilize the same point(s) of diversion?	
	□ See Attachment No	
	THER SOURCES OF WATER e you presently using, or do you intend to use, purchased water or water supplied by contract in contract the this project? Yes No If yes, please explain:	nnection
	AP REQUIREMENTS e Division cannot process your application without accurate information showing the source of war action of water use. You must include a map with this application form that clearly indicates the to age, section and quarter/quarter section of (1) the proposed points of diversion and (2) the place of a U.S.G.S. quadrangle/topographic map of your project area is preferred, and can be obtained from ods stores or through the Internet at http://topomaps.usgs.gov. A certified engineering map is required appropriating more than three cfs by direct diversion, (2) constructing a dam which will be under isdiction of the Division of Safety of Dams, (3) creating a reservoir with a surface area in excess of appropriating more than 1000 acre-feet per annum by underground storage. See the instruction before information. See Attachment No. 3	wnship, use. A copy sporting ired when the f ten acres or
	SECTION C: ENVIRONMENTAL INFORMATION	
mus Env prej dete asse que	Before a water right permit may be issued for your project, the State Water Resources Control Board onsider the information contained in an environmental document prepared in compliance with the commental Quality Act (CEQA). This form is not a CEQA document. If a CEQA document has not sed for your project, a determination must be made of who is responsible for its preparation. If the State with the environmental evaluation and preparation of the required documents. Please answer to the best of your ability and submit with this application any studies that have been conducted vironmental evaluation of your project.	California yet been SWRCB is costs he following
1.	OUNTY PERMITS Contact your county planning or public works department and provide the following information:	
	Person contacted: Sonoma County Date of contact: 5-24-06	
	Department: Planning Dept. Telephone: (707) 565-	1900
	County Zoning Designation: All parcels - DA B7 5R Are any county permits required for your project? YES NO If YES, check appropriate be Grading permit Use permit Watercourse Obstruction permit Change of zonin General plan change Other (explain):	ıg
	Have you obtained any of the required permits described above? ☐ YES ☐ NO If YES, provide a complete copy of each permit obtained. ☐ See Attachment No	
2.	TATE/FEDERAL PERMITS AND REQUIREMENTS Check any additional state or federal permits required for your project: ☐ Federal Energy Regulatory Commission ☐ U.S. Forest Service ☐ U.S. Bureau of Land Ma ☐ U.S. Corps of Engineers ☐ U.S. Natural Res. Conservation Service ☐ Calif. Dept. of Fis ☐ State Lands Commission ☐ Calif. Dept. of Water Resources (Div. of Safety of Dams) ☐ Calif. Coastal Commission ☐ State Reclamation Board ☐ Other (specify)	
	For each agency from which a permit is required, provide the following information:	
	AGENCY PERMIT TYPE PERSON(S) CONTACTED CONTACT DATE TELEPHOI	NE NO.
	☐ See Attachment No	

APP 04/04

	If YES, explain:
d.	□ See Attachment No Have you contacted the California Department of Fish and Game concerning your project? □ YES ☒ N If YES, name and telephone number of contact:
אינו	VIRONMENTAL DOCUMENTS
a. c.	Has any California public agency prepared an environmental document for your project? YES NO If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency. Public agency:
d.	If NO, check the appropriate box and explain below, if necessary: ☐ The applicant is a California public agency and will be preparing the environmental document.* ☐ I expect that the SWRCB will be preparing the environmental document.**
	☐ I expect that a California public agency other than the State Water Resources Control Board will be preparing the environmental document.* Public agency: ☐ See Attachment No
	* Note: When completed, submit a copy of the <u>final</u> environmental document (including notice of determination) of notice of exemption to the SWRCB, Division of Water Rights. Processing of your application cannot proceed up these documents are submitted.
	** Note: CEQA requires that the SWRCB, as Lead Agency, prepare the environmental document. The information contained in the environmental document must be developed by the applicant and at the applicant's expense und the direction of the SWRCB, Division of Water Rights.
**7	ASTE/WASTEWATER
a.	Will your project, during construction or operation, (1) generate waste or wastewater containing such thin sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sediment
	☐ YES ☐ NO If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.):
	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.):
	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.):
L	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.): See Attachment No
b.	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.): See Attachment No
b. с.	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.): See Attachment No
	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.): See Attachment No
c.	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.): See Attachment No
c.	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.): □ See Attachment No Will a waste discharge permit be required for your project? □ YES ☒ NO Person contacted: Date of contact: What method of treatment and disposal will be used? □ See Attachment No RCHEOLOGY Have any archeological reports been prepared on this project? □ YES ☒ NO Will you be preparing an archeological report to satisfy another public agency? □ YES ☒ NO Do you know of any archeological or historic sites located within the general project area? □ YES ☒ NO
c. Ala. b.	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.): □ See Attachment No Will a waste discharge permit be required for your project? □ YES ☒ NO Person contacted: □ Date of contact: What method of treatment and disposal will be used? □ See Attachment No RCHEOLOGY Have any archeological reports been prepared on this project? □ YES ☒ NO Will you be preparing an archeological report to satisfy another public agency? □ YES ☒ NO
c. Ala. b.	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.): See Attachment No
c. A. a. b. c.	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality C Board for the following information (See instruction booklet for address and telephone no.): □ See Attachment No Will a waste discharge permit be required for your project? □ YES ☒ NO Person contacted: Date of contact: What method of treatment and disposal will be used? □ See Attachment No RCHEOLOGY Have any archeological reports been prepared on this project? □ YES ☒ NO Will you be preparing an archeological report to satisfy another public agency? □ YES ☒ NO Do you know of any archeological or historic sites located within the general project area? □ YES ☒ No If YES, explain:

SECTION D: SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the environmental review fee, payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. Your application will be returned to you if it is not accompanied by all required fees.

SECTION E: DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.

Signature of Applicant Owner May 25, 2006

Title or Relationship Date

Signature of Co-Applicant (if any)

Title or Relationship

Date



"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- Answer each question completely in Sections A, B, and C.
- □ Number and include all necessary attachments.
- Include a legible map that meets the requirements discussed in the instruction booklet (Item B6).
- Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation (Item A6).
- Include three complete sets of color photographs of the project site (Item C6).
- Enclose a check for the required fee, payable to the Division of Water Rights, as specified in Section D.
- □ Enclose a \$850 check for the environmental review fee, payable to the Department of Fish and Game, as specified in Section D.
- □ ∕ Sign and date the application in Section E.

Send the original and one copy of the entire application to:

State Water Resources Control Board Division of Water Rights P.O. Box 2000 Sacramento, CA 95812-2000

Attachment to Accompany Water Right Application Norm Shinabargar

Attachment #1

3. Project Description

This project consists of storage of water in one existing onstream reservoir, having a capacity of 35 acre-feet, located on the Applicant's property. Water will be used for irrigation, heat control and frost protection of approximately 40 acres of existing vineyard and approximately 24 acres of proposed vineyard. The reservoir was built in late 1950's and stores water from its naturally tributary area. The reservoir also receives water from the adjacent watershed collected in an existing drop inlet at Point of Diversion #2. Water will also be used for incidental recreation and fire protection purposes at the reservoir.

4240

The existing vineyard was planted in 1972 and is currently irrigated by a groundwater well and frost protected from the reservoir. The property has historically been farmed since the early 1900's.

The reservoir and 40 acres of vineyard are in place and are located in areas that were historically cleared. The 24 acres of proposed vineyard and associated water transfer lines will be developed in naturally cleared areas (see attached photographs).

SHINE005.DOC

ATTACHMENT 2

Estimate of Water Availability to Accompany Water Right Application by Norm Shinabarger

California Water Code Section 1260(k) requires that every application for a permit to appropriate water shall include "sufficient information to demonstrate a reasonable likelihood that unappropriated water is available for the proposed appropriation." This narrative and accompanying calculations provide the required information.

The subject Application is within the watershed of Rincon Creek tributary to Santa Rosa Creek thence Mark West Creek thence the Russian River in Sonoma County (see attached map). According to State Water Resources Control Board Order WR 98-08, the Santa Rosa Creek watershed is fully appropriated form June 1 to October 31. The Application proposes a diversion season of November 1 to May 30, which conforms to Order WR 98-08. The following describes the methodology used to demonstrate a reasonable likelihood that water is physically available for the proposed appropriation.

The attached map shows the proposed points of diversion and the watershed areas tributary thereto. The map also shows lines of equal mean annual runoff as shown on the map included with the document entitled *Mean Annual Runoff in the San Francisco Bay Region, California, 1931-70 by S.E. Rantz, 1974.* An excerpt of this map is attached (Rantz map).

The weighted mean annual runoff for the watersheds tributary to the proposed points of diversion was computed based on the Rantz map. Mean *seasonal* runoff for the subject watersheds was estimated by adjusting the mean annual runoff assuming that the ratio of seasonal to annual runoff is identical to the ratio of seasonal to annual mean precipitation. The Santa Rosa precipitation station was used for this purpose. The resulting seasonal runoff value was adjusted by deducting the *face value* of any senior water rights in the watershed above the proposed points of diversion.

Calculations for the foregoing methodology are attached. These calculations show that in an average year runoff of approximately 183 acre-feet would occur at the points of diversion during the proposed season of diversion. The diversion of 35 acre-feet would leave about 148 acre-feet of runoff remaining during the proposed diversion season. Accordingly, it is reasonable to conclude that water is available for the subject Application.

SHINB006.doc

¹ USGS Miscellaneous Field Studies Map MF-613, prepared in cooperation with the California Department of Water Resources.

Water Right Application by Norm Shinabarger Estimate of Water Availability

Points of Diversion #1 & #2

Monthly Precipitation(1)

SANTA ROSA, CALIFORNIA

<u>Month</u>	Mean Precipitation (in)	
October	1.72	
November	3.79	
December	5.64	
January	6.18	
February	5.21	
March	4.13	
April	2.07	
May	0.89	
June	0.28	
July	0.03	
August	0.10	
September	<u>0.33</u>	
Annual	30.37	
or requested diversion seaso	on (11/1 - 5/31):	27.91 in

Mean precipitation for requested diversion season (11/1 - 5/31):	27.91 in
Precipitation during requested diversion season as a percentage of total precipitation:	91.90%
Mean Annual Runoff: (2)	16.7 in
Estimated Mean Seasonal Runoff.(3)	15.3 in
Watershed Area for PODs #1 and #2:	143.1 ac
Total Estimated Mean Seasonal Runoff at PODs #1 & #2:	182.5 ac-ft
Senior Diverters of Record within PODs #1 & #2 watershed:	n/a
Total water available:	182.5 ac-ft
Requested diversion amount:	35.0 ac-ft
Total Seasonal Amount Remaining in Stream After Diversion:	147.5 ac-ft

Notes:

⁽¹⁾ Source: Western Regional Climate Center website, http://www.wrcc.dri.edu/summary/climsmnca.html

⁽²⁾ Mean Annual Runoff in the San Francisco Bay Region, California, 1931-70 (Miscellaneous Field Studies Map MF-613), by S.E. Rantz, 1974.

⁽³⁾ Estimated mean seasonal runoff is computed by multiplying mean annual runoff by percent seasonal precipitation.

Norm Shinabarger Calculation of Weighted Mean Annual Runoff in POD Watersheds

Watershed	Area (ac)	Mean Annual Runoff (in)	Volume (ac-in)	Volume (ac-ft)
POD 1 & 2			•	
	119.9	16.6	1,990	166
	<u>23.2</u>	17.1	<u>397</u>	<u>33</u>
Total	143.1		2,387	199
Weighted Average		16.7		

SANTA ROSA, CALIFORNIA

Monthly Total Precipitation (inches) -47965

File last updated on May 4, 2006

*** Note *** Provisional Data *** After Year/Month 200601

a = 1 day missing, b = 2 days missing, c = 3 days, ..etc...

z = 26 or more days missing, A = Accumulations present

Long-term means based on columns; thus, the monthly row may not

sum (or average) to the long-term annual value.

MAXIMUM ALLOWABLE NUMBER OF MISSING DAYS: 5

Individual Months not used for annual or monthly statistics if more than 5 days are missing. Individual Years not used for annual statistics if any month in that year has more than 5 days missing.

WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANN
1931				3.48 e	1.87	2.94	0.49	0.9	0.67	0	0	0	-
1932	1.4	2.27	11.29	3.45	1.49	1.21	1.43	1,65	0	0	0	0	24.19
1933	0.08	1.69	4.06	6.4	1.51	4.64	0.12	2.23	0	0.02	0	0.17	20.92
1934	2.02	0	8.14	1.75	4.69	1.13	0.73	1.39	1	0	0	0.03	20.88
1935	2.28	5.19	3.45	7.36	3.5	6.31	6.87	0	0	0	0.12	0.23	35.31
1936	1.02	1.47	2.95 a	7.77	11.81	1.58	1.86	0.61	0.8	0	0.03	0	29.9
1937	0.22	0.02	2.9	4.92	8.59	6.31	1.87	0.19	1.28	0.05	0	0	26.35
1938	1.06	7.46 a	5.4	4.77	9.66	8.03	2.45	0.06	0	0.02	0	0.38	39.29
1939	2.18	2.22	2.14	3.36	1.61	2.41	0.14	1.12	0	0	0	0.08	15.26
1940	0.52	0.46	2.88	10.87	12.31	7.14	1.84	1.96	0.07	0	0	0.5	38.55
1941	1.82	2.59	13.56	11.02	8.22	5.59	6.71	1.84	0.3	0	0	0.13	51.78
1942	1.53	3.58	9.12	6.5	8.65	3.78	5.58	1.67	0	0.02	0	0.15	40.58
1943	1.23	5.75	5.8	9.28	2.73	4.85	2,67	0.05	0	0.03	0	0	32.39
1944	0.68	1.16	2.38	5.07	7.66	2,25	2.15	1.58	0.28	0	0	0.02	23.23
1945	2.45	5.9	4.22	3.13	4.92	5.82	0.33	1.39	0	0	0	0	28.16
1946	2.91	4.23	10.37	2.32	2.98	2.2	0.1	0.47	0	0.2	0	0.06	25.84
1947	0.28	4.08	3.66	0.76	3.82	4.94	0.65	0.4	1.63	0	0	0	20.22
1948	5.28	1,55	1.22	4.18	1.51	5.57	7.61	1.03	0.25	0.06	0	0.13	28.39
1949	0.85	1,87	4.67	1.39	3.32	6.83	0.08	0.74	0	0.05	0.04	0.02	19.86
1950	0.02	2.12	2.79	10.12	5.15	3.29	1.31	0.56	0.06	0	0	0	25.42
1951	3.46	7.19	9.38	5.14	2.84	1.25	1.27	1.48	0	0	0.01	0.04	32.06
1952	2.68	6.26	8.01	10.19	2.88	4.62	0,84	0.57	1.38	0.04	0	0.05	37.52
1953	0.08	2.73	14.72	6.74	0.08	3.17	3.91	0.57	0.97	0	0.17	0	33.14
1954	1.31	4.15 j	0.96	7.8	3.19	5.74	3.23	0.37	0.26	0	1.35	0	28.36
1955	0.9	5.64	4.43	3.63	1.22	0.6	3.68	0.01	0	0	0	0.45	20.56
1956	0.51	3.28	17.89	11.78	6.15	0.31	2.48	1.28	0.1	0	0	0.17	43.95
1957	2.28	0.23	0.38	3.85	5.57	2.49	2.32	3.93	0.08	0	0	2,16	23.29
1958	6.16	0.93	3.99	7.18	11.94	6.87	5.43	0.45	0.44	0.01	0,01	0.03	43.44
1959	0.15	0.29	1.96	7.75	6.24	1.6	0.25	0.16	0	0	0	3.16	21.56
1960	0.14	0.08	1.8	5.65	8.46	6.05	1.38	0.8	0 a	0	0	0.01	24.37
1961	0.71 d	3.81	4.5	5.22	3.29	4.6	1.07	0.77	0.16	0	0.03	0.57	24.73
1962	0.17	2.88	3.93 с	2.02	8.79	4.34	0.51 a	0.06	0	0	0.08	0.36	23.14
1963	9.47	0.95	4.64	3.75	4.22	4.94	6.57	0.66	0	0	0.01	0.09	35.3
1964	2.61	7.53	0.81	5.19	0.33	1.97	0.33	0.4	1.1	0	0.02	0	20.29
1965	2.31	6.12	8.64	6.63	1.24	0.97	5.04	0	0	0.01	0.5	0 z	-
1966	0.23	6.11	3.74	8.62	3.3	0.97	1.31	0.21	0.13	0	0.12	0.35	25.09

									1.04	^	0	0.07	41,93
1967	0.01	7.61	6.55	12.42	0.58	5.86	6.72	0.17	1.94	0	0		26.64
1968	0.86	2.68	4.01	7.63	4.82	4.2	0.48	0.26	0	0	1.68	0.02 0.03	41.15
1969	2.07	3.39	9.09	13.25	8.23	1.79	3.23	0.03	0.04	0	0 0	0.03	38.41
1970	2.42	1.19	11.79	15.89	3.17	3.44	0.07	0	0.44	0	·=		31.24
1971	2.24	8.97	10.78	3.13	0.19	4.05	1.22	0.24	0.05	0	0.03	0.34	17.6
1972	0.49	2.39	5.49	1.89	3.49	1.02	1.79	0.09	0.13	0.05	0.11	0.66	42.91
1973	3.47	6.87	5.12	15.38	7.17	3.48	0.65	0.03	0	0	0	0.74	
1974	2.37	13.23	5.33	6.48	3.54	6.67	2.87	0.09	0	1.61	0	0	42.19
1975	1.27	1.2	3.8	1.98	9.88	7.84	1.71	0.02	0.1	0	0.21	0.02	28.03
1976	6.44	1.58	0.89	0.39	2.61	0.92	2.62	0	0.03	0	0.78	0.66	16.92
1977	0.46	1.76	1.15	2.01	1.93	2.65	0.23	1.43	0	0	0	1.16	12.78
1978	0.65	0.03	5.22	9.81	2.44 d	0 z	2.29	80.0	0	0	0	1.38	-
1979	0	0 z	0.41	0 z	0 z	0 z	0 z	0 z	0 z	0.01	0	0.09	-
1980	4.14	5.99	7.71	7.09	8.82	1.52	2	0.19	0.27	0	0	0	37.73
1981	0.38	0.5	6.6 a	7.81	2.6	3.58	0.2	0.63	0	0.02	0	0.24	22.56
1982	2.76	8.91	11.29	8.72	5.23	6.5	4	0	0.03	0	0	0.97	48.41
1983	4.3 a	8.44	3.61	8.39	9.83	15.74	3.46	0.92	0	0	0.75	0.24	55.68
1984	1.2	11.21	11.33	0.65	2.45	2.25	1.18	0.11	0.13	0	0.17	0.09	30.77
1985	2.36	10.92	2.6	1.87	3.01	4.61	0.2	0.04	0.02	0.03	0	1.18	26.84
1986	1.4	4.5	3.72	6.64	15.94	5.9	0.83	0.82	0	0	0	2.75	42.5
1987	0.55	0.2	2.65	5.01	5.45 a	4.83	0.16	0.08	0.01	0.01	0	0	18.95
1988	1.37	4.45	6.11 a	6.99	0.4	0.02	1.53	0.73	0.49	0	0	0	22.09
1989	0.11	4.89	4.07	1,47	1.53 a	10.22	1.22	0.13	0.22	0	0.04	2.72	26.62
1990	2.65	1.71	0	5.74	3.27	2.03	0.24	5.46	0.01	0	0	0.27	21.38
1991	0.62	0.44	1.16	0.75	4.72	13.74	0.33	0.13	0.72	0	0.05	0.01	22,67
1992	1.74	1.15	2.91	2.03	9.34	4.69	1.64	0	0.79	0	0	0	24.29
1993	3.65	0.31	8.73	11.48	5.58 b	3.44	1.6	1.43	1.06	0	0	0	37.28
1994	3.06	3.39 a	3.94	3.38	4.8	0.34	1.56	0.89	0	0.02	0	0.01	21.39
1995	1.02	7.21	3.37 a	17.08	1.54	11.52	3.01	1.78	0.76	0	0	0	47,29
1996	0	0.41	9.38	8.94	9.43	2.58	3.89	3.69	0	0	0	0.05	38.37
1997	0.89	3.47	11.83	11.4	0.86	1.37	1.28	0.87	0.42	0	1.01	0.46	33.86
1998	1.48	7.42	3.29	10.7	19.42	3.89	0 z	4.04	0	0	0	0.05	-
1999	1.06	5.88	1.35	5.12	12.37	4.29	2.13	0.13	0.15	0	0	0.17	32.65
2000	0.99	3.59	0.7	5.44	11.65	3.07	0 z	0 z	0.25	0	0.01	0.54	•
2001	3.45	1.65	0.86	5.27	5.94	0 z	0 z	0 z	0.48	0	0	0.13	-
2002	0.96	9	11.49	5.02	1.84	2.43	0.64	1.13	0	0	0	0	32.51
2003	0	3.48	16.18	3.7	2.18	2.81	4.89	1.48	0.05	0.03	0.01	0.07	34.88
2004	0.04	3.22	11.42	3.44	9.24	1.14	0.68	0.03	0	0.02	0.01	0.11	29.35
2005	3.27	1.81	10.46	4.12	4.29	5.75	1.61	5.55	0.95 a	0	0.02	0	37.83
					1931-2005	Period of I	Record Stat	istics					
MEAN	1.72	3.79	5.64	6.18	5.21	4.13	2.07	0.89	0.28	0.03	0.10	0.33	30.43
MAX	9.47	13.23	17.89	17.08	19.42	15.74	7.61	5.55	1.94	1.61	1,68	3.16	55.68
MIN	0.00	0.00	0.00	0.39	0.08	0.02	0.07	0.00	0.00	0.00	0.00	0.00	12.78
NO YRS	75	73	75	75	75	73	72	72	74	75	75	74	68

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